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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,859	07/16/2003	Andrew R. Weisenberger	062374	1761
38834 7590 10/28/2008 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 WASHINGTON, DC 20036			EXAMINER	
			JIANG, CHEN WEN	
			ART UNIT	PAPER NUMBER
			3744	
			MAIL DATE	DELIVERY MODE
			10/28/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/621,859	WEISENBERGER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Chen-Wen Jiang	3744			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
<ul> <li>1) Responsive to communication(s) filed on <u>08 Au</u></li> <li>2a) This action is <b>FINAL</b>. 2b) This</li> <li>3) Since this application is in condition for allowant closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-5,7-13,22 and 24-29 is/are pending 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5,7-13,22 and 24-29 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration.				
10) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on 16 July 2003 is/are: a) ☐ Applicant may not request that any objection to the conference of Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 20080508.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	nte			

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**DETAILED ACTION** 

1. In view of the Appeal Brief filed on 8/8/2008, PROSECUTION IS HEREBY

REOPENED. New grounds of rejections are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following

two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37

CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an

appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee

can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have

been increased since they were previously paid, then appellant must pay the difference between

the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing

below:

/Cheryl J. Tyler/

Supervisory Patent Examiner, Art Unit 3744.

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## Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-5, 7-13, 22 and 24-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Construction Drying (Munters 2000) in view of Case Study (Munters 03/2002), Using Desiccant Technology to End Moisture Nightmare on Construction Projects (Munters 02/2002) or Munters (2000/2001).

In regard to claims 1, 2, 5 and 7, Munters discloses drying services to speed construction activities protect materials and eliminate moisture problems and control humidity at building projects. The techniques include using desiccant dehumidification, refrigeration and heating equipment. Munters dehumidifiers continuously replace humid air inside the building with air, which has been dehumidified. This extremely dry air has a low "vapor pressure". The picture of "Union Station, Seattle, Washington" (page 2) has vapor barrier on the working floor and siding and the picture of "San Francisco, California" (page 5) has plastic sheeting to cover the windows

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to form a closed building. Munters (2000) discloses the invention substantially as claimed. However, Munters (2000) does not explicitly disclose humidity measurement. Munters (03/2002) discloses maintaining level of 30% RH (page 1, col.1 and page 2, col.2) and Munters (02/2002) discloses drying lumber and plywood to 12% before closing the walls (page 2) in the same field of endeavor for the purpose of avoiding mold. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have the apparatus of Munters (2000) with moisture measurement in view of Munters (03/2002 and 02/2002) so as to improve quality of the construction and shorten the construction time. Munters (02/2002) also discloses the dehumidifier produces air and piped into the closed building using flexible ductwork and direct to specific work areas (moving equipment to different location). Pictures in the Munters (2000) are also found in two other publications, such as Daily Journal of Commerce (June 1, 2000; front cover) and ASHRAE meeting (January 2003; page 6). In addition, containment tarps used in the enclosed wet areas were identified in the ASHRAE meeting (January 2003; page 6). These pictures demonstrate the vapor barrier surrounding to create a dry working inside building under construction. Under the principals of inherency, if a prior art device, in its normal and usual operation, would necessarily perform the method claimed, then the method claimed will be considered to be anticipated by the prior art device. When the prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed the device will inherently perform the claimed process. Ir re King, 801 F.2d 1324, 231 USPQ 136 (Fed. Cir. 1986).

In regard to claims 3 and 4, Drying services to speed construction are disclosed by Munters (02/2002) for housing project, by Daily Journal of Commerce for building under

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construction, by Munters (03/2002) for school and by Munters (2000) for high rise towers, schools, offices and shopping centers. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the same technology to single family drilling since single family drilling is also a building/housing and has the same type of moisture problem.

In regard to claims 8-13, Munters (2000) disclose the system may be desiccant dehumidification alone, or an integrated system of heating, cooling, air moving and dehumidification equipment. Munters (03/2002) disclose the system is a combination of desiccant dehumidifiers, indirect fired heater, and fans used to move the warm, dry air through a distribution network of light weight flexible duct. Munters (2000/2001) discloses dehumidification and heating in the same field of endeavor for the purpose of enhance moisture removal.

In regard to claim 22, in addition to all above, Munters (03/2002) discloses maintaining level of 30% RH (page 1, col.1 and page 2, col.2), Munters (02/2002) discloses drying lumber and plywood to 12% before closing the walls (page 2) and Munters (2000) discloses bring concrete slab to specific moisture content. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to locate the humidity sensor at the locations of desired humidity specified, such as lumber, plywood, wall and slab areas to have better representation of the humidity at the specified structure areas.

In regard to claims 24-29, in addition to all above, Munters (03/2002) discloses maintaining level of 30% RH (page 1, col.1 and page 2, col.2) and Munters (02/2002) discloses drying lumber and plywood to 12% before closing the walls (page 2). Therefore, continuous

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moisture content readings are taken to determine whether the desired humidity level has been maintained. This is also shown in the article of "Hunters New HCU Humidity Control Independently of Temperature Control" provided with this Office Action.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809. The examiner can normally be reached on Monday-Thursday from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chen-Wen Jiang/ Primary Examiner, Art Unit 3744